

Territory-wide System Assessment (S.3)

Mathematics Past Papers Analysis

Dimensions Distribution

Scope of the Assessment

- According to the documents *Syllabuses for Secondary Schools – Mathematics (Secondary 1 – 5), 1999 and Mathematics Curriculum: Basic Competency at the end of Key Stage 3 (Trial Version)*
- Focus on basic and important areas of the S.1 to 3 curriculum
- Test on the concepts, knowledge, skills and applications in these areas
- Three dimensions are covered: Number & Algebra, Measures, Shape & Spaces and Data Handling

Based on the dimensions distributions of the past papers, ‘Number & Algebra’ and ‘Measures, Shape & Spaces’ respectively occupied around 40 – 50% each year. Besides, ‘Data Handling’ only occupied around 10 – 15 % each year. Teachers are suggested to enhance students’ practices on the two dimensions ‘Number & Algebra’ and ‘Measures, Shape & Spaces’.

Dimensions Distributions:

[Year 2013]

Sub-paper Dimension	9ME1	9ME2	9ME3	9ME4	
Number and Algebra	35 marks (51.5%)	34 marks (50.0%)	32 marks (47.1%)	32 marks (47.1%)	← around 45 – 55%
Measures, Shape and Space	26 marks (38.2%)	25 marks (36.8%)	29 marks (42.6%)	27 marks (39.7%)	← around 35– 45%
Data Handling	7 marks (10.3%)	8 marks (11.8%)	6 marks (8.8%)	8 marks (11.8%)	← around 5 – 15%
Total	68 marks (100.0%)	67 marks (100.0%)	67 marks (100.0%)	67 marks (100.0%)	

[Year 2012]

Sub-paper Dimension	9ME1	9ME2	9ME3	9ME4	
Number and Algebra	33 marks (47.1 %)	32 marks (45.7%)	34 marks (47.2%)	31 marks (45.1%)	← around 45 – 50%
Measures, Shape and Space	30 marks (42.9%)	30 marks (42.9%)	28 marks (38.9%)	29 marks (40.8%)	← around 35– 45%
Data Handling	7 marks (10.0%)	8 marks (11.4%)	10 marks (13.9%)	10 marks (14.1%)	← around 10 – 15%
Total	70 marks (100%)	70 marks (100%)	72 marks (100%)	71 marks (100%)	

[Year 2011]

Sub-paper Dimension	9ME1	9ME2	9ME3	9ME4	
Number and Algebra	30 marks (42.3 %)	35 marks (49.3%)	36 marks (50.7%)	36 marks (51.4%)	← around 40 – 55%
Measures, Shape and Space	30 marks (42.3%)	27 marks (38.0%)	28 marks (39.4%)	26 marks (37.1%)	← around 35– 45%
Data Handling	11 marks (15.5%)	9 marks (12.7%)	7 marks (9.9%)	8 marks (11.4%)	← around 5 – 20%
Total	71 marks (100%)	71 marks (100%)	71marks (100%)	70 marks (100%)	

[Year 2010]

Sub-paper Dimension	9ME1	9ME2	9ME3	9ME4	
Number and Algebra	31 marks (44.3 %)	35 marks (49.3%)	32 marks (45.7%)	31 marks (44.9%)	← around 40 – 50%
Measures, Shape and Space	31 marks (44.3%)	28 marks (39.4%)	27 marks (38.6%)	28 marks (40.6%)	← around 35– 45%
Data Handling	8 marks (11.4%)	8 marks (11.3%)	11 marks (15.7%)	10 marks (14.5%)	← around 10 – 15%
Total	70 marks (100%)	71 marks (100%)	70 marks (100%)	69 marks (100%)	

[Year 2009]

Sub-paper Dimension	9ME1	9ME2	9ME3	9ME4	
Number and Algebra	26 marks (37.7 %)	30 marks (43.5%)	33 marks (48.5%)	32 marks (47.1%)	← around 35 – 50%
Measures, Shape and Space	34 marks (49.3%)	32 marks (46.4%)	29 marks (42.6%)	31 marks (45.6%)	← around 40 – 50%
Data Handling	9 marks (13.0%)	7 marks (10.1%)	6 marks (8.8%)	5 marks (7.4%)	← around 5 – 15%
Total	69 marks (100%)	69 marks (100%)	68 marks (100%)	68 marks (100%)	

[Year 2008]

Sub-paper Dimension	9ME1	9ME2	9ME3	9ME4	
Number and Algebra	33 marks (47.1%)	33 marks (47.1%)	31 marks (44.3%)	30 marks (42.3%)	← around 40 – 50%
Measures, Shape and Space	29 marks (41.4%)	28 marks (40%)	31 marks (44.3%)	31 marks (43.7%)	← around 40 – 45%
Data Handling	8 marks (11.4%)	9 marks (12.9%)	8 marks (11.4%)	10 marks (14.1%)	← around 10 – 15%
Total	70 marks (100%)	70 marks (100%)	70 marks (100%)	71 marks (100%)	

[Year 2007]

Sub-paper Dimension	9ME1	9ME2	9ME3	9ME4	
Number and Algebra	27 marks (41.5%)	27 marks (41.5%)	27 marks (41.5%)	25 marks (38.5%)	← around 35 – 45%
Measures, Shape and Space	27 marks (41.5%)	26 marks (40%)	28 marks (43.1%)	29 marks (44.6%)	← around 40 – 45%
Data Handling	11 marks (16.9%)	12 marks (18.5%)	10 marks (15.4%)	11 marks (16.9%)	← around 15 – 20%
Total	65 marks (100%)	65 marks (100%)	65 marks (100%)	65 marks (100%)	

[Year 2006]

Sub-paper Dimension	9ME1	9ME2	9ME3	9ME4	
Number and Algebra	26 marks (37.7%)	27 marks (37.5%)	29 marks (41.4%)	24 marks (33.8%)	← around 35 – 45%
Measures, Shape and Space	33 marks (47.8%)	33 marks (45.8%)	30 marks (42.9%)	35 marks (49.3%)	← around 40 – 50%
Data Handling	10 marks (14.5%)	12 marks (16.7%)	11 marks (15.7%)	12 marks (16.9%)	← around 10 – 20%
Total	69 marks (100%)	72 marks (100%)	70 marks (100%)	71 marks (100%)	